

ESD-TR-83-208

MTR-3957, Supp. 1

1.2

DEB TYPE I ALARM STATUS UNIT TECHNICAL MANUAL SUPPLEMENT

By
J. F. SCIORA

FEBRUARY 1984

AD A1 38980

Prepared for
DEPUTY FOR TACTICAL SYSTEMS
ELECTRONIC SYSTEMS DIVISION
AIR FORCE SYSTEMS COMMAND
UNITED STATES AIR FORCE
Hanscom Air Force Base, Massachusetts



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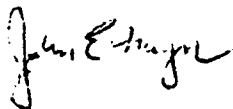
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This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



JOHN E. MEYN, Major, USAF
DEB Program Manager
Deputy for Tactical Systems

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19. ABSTRACT (Continue on reverse if necessary and identify by block number) The DEB Type I Alarm Status Unit provides local display of the equipment alarms for the Type I Contingency Package. Visible and audible indication of new alarms are given. ESD-TR-80-132 (AD A089969) described the theory, operation, and maintenance of this unit. This document replaces some of the illustrations, photographs, and tables in ESD-TR-80-132. Figure and table numbers from the original report have been retained on the revised pages.			
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Handwritten notes and a table. The table has four columns and one row with the value "A1" in the first column.

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Figures within this updated supplement replace some of the illustrations, photographs, and tables in ESD-TR-80-132, AD A089969. Figure and table numbers from the original report have been retained on the revised pages. Those pages are listed below:

Original ESD-TR Page No.	Figure or Table	Revised Title, Description, and Page No.
8	Figure 2.1	Electrical Connections (photograph), p. 4
31	Figure A.3	DEB Alarm Box Wiring Schematic (engineering drawing), p. 5
33-44	Table A.4	Wirewrap Board Wire Running Sheet Alarm Status Unit (table replaced by engineering drawing: EC60A, MOD, Sheet 2 of 2), p. 7
45	Figure A.5	Interior of Alarm Status Unit (photograph), p. 9
46	Figure A.6	Interior of Alarm Status Unit Without Circuit Card (photograph), p. 10
*47	Figure A.7	DEB Alarm Box, Assembly (engineering drawing), p. 11
*49	Figure A.7.1	
51	Figure A.7.2	DEB Alarm Box, Drill (engineering drawing), p. 13
*53	Figure A.7.3	
59	Figure A.7.6	DEB Fault Alarm Information Plate, p. 15
61	Figure A.7.7	Wirewrap Assembly (engineering drawing: EC60A, MOD, Sheet 1 of 2), p. 17

*These three drawings have been replaced by one drawing, figure A.7 entitled, "DEB Alarm Box Assembly."

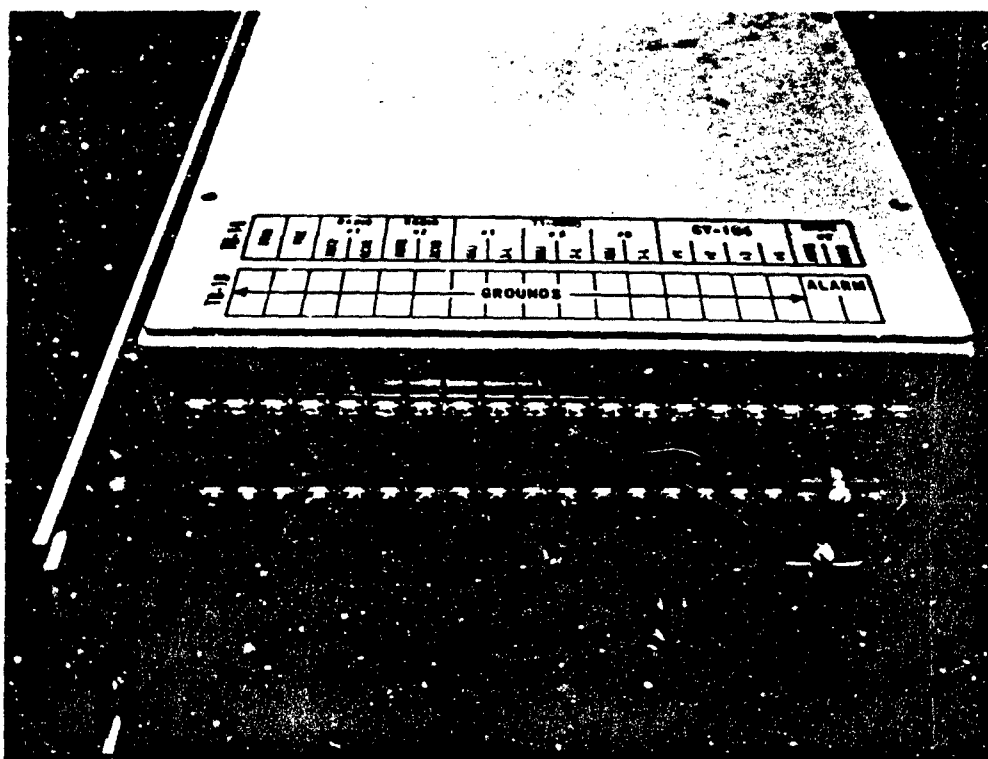
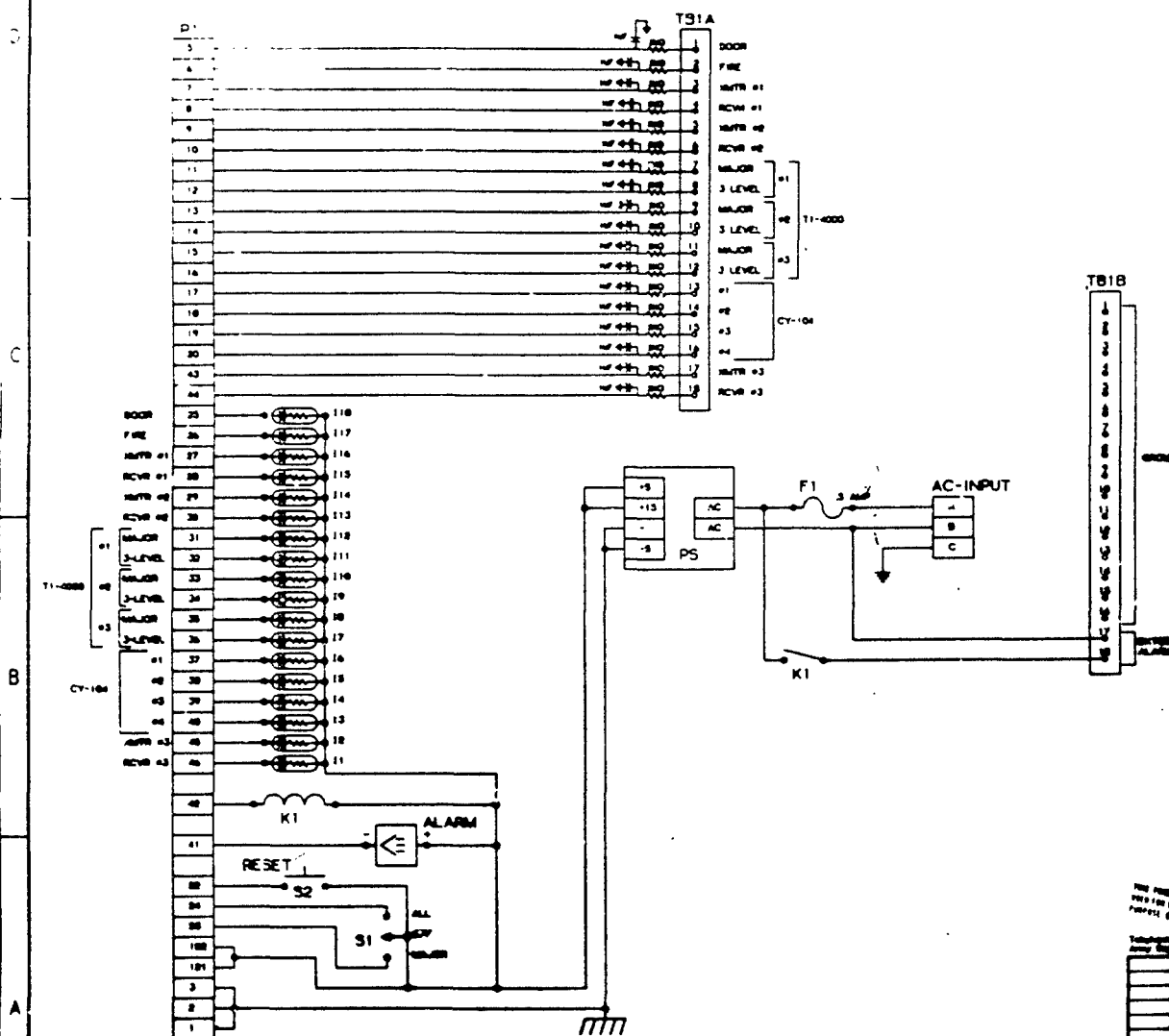


Figure 2.1. Electrical Connections

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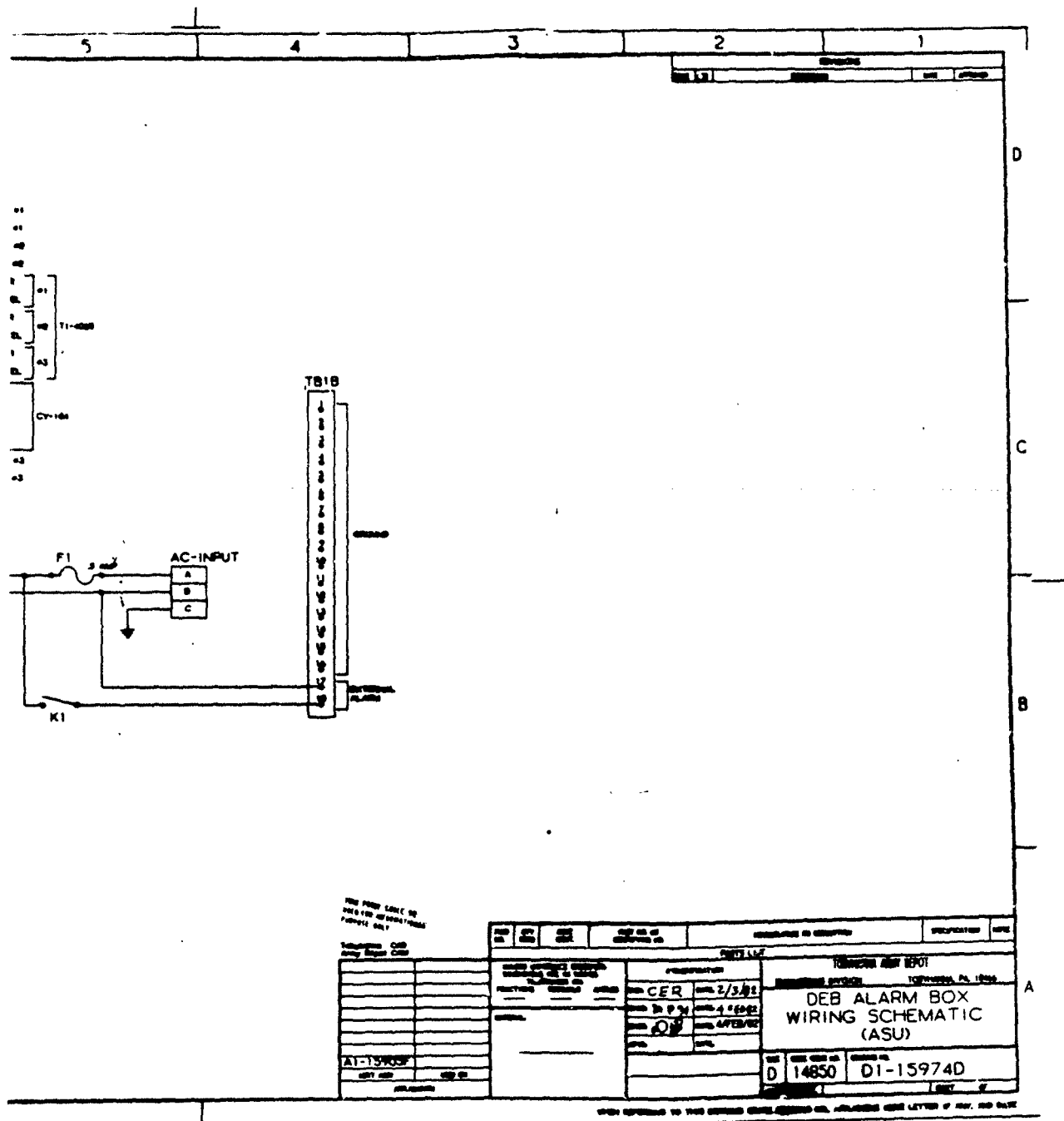


Figure A.3. DEB Alarm Box Wiring Schematic

NOTE: As the content of the air samples was a trace and
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sufficient data for other tests on that
sample, and I am submitting it as such.
to please be considered as a trace.

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WIRE CONNECTIONS - CONTINUED									
WIRE CONNECTIONS - SEE NOTE									
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2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
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10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12
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14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19
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21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24
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42	42	42	42	42	42	42	42	42	42
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44	44	44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46	46	46
47	47	47	47	47	47	47	47	47	47
48	48	48	48	48	48	48	48	48	48

ARE FURTHER SIGNAL

APPROXIMATE CORRECTIONS (SEE NOTE 2)

1	$C(1) = 1.14$
2	$C(2) = 1.14 \times 2 = 2.28$
3	$C(3) = 1.14 \times 3 = 3.42$
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8	$C(8) = 1.14 \times 8 = 9.12$
9	$C(9) = 1.14 \times 9 = 10.26$
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21	$C(21) = 1.14 \times 21 = 23.94$
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26	$C(26) = 1.14 \times 26 = 29.64$
27	$C(27) = 1.14 \times 27 = 30.78$
28	$C(28) = 1.14 \times 28 = 31.92$
29	$C(29) = 1.14 \times 29 = 33.06$
30	$C(30) = 1.14 \times 30 = 34.20$
31	$C(31) = 1.14 \times 31 = 35.34$
32	$C(32) = 1.14 \times 32 = 36.48$
33	$C(33) = 1.14 \times 33 = 37.62$
34	$C(34) = 1.14 \times 34 = 38.76$
35	$C(35) = 1.14 \times 35 = 39.90$
36	$C(36) = 1.14 \times 36 = 41.04$
37	$C(37) = 1.14 \times 37 = 42.18$
38	$C(38) = 1.14 \times 38 = 43.32$
39	$C(39) = 1.14 \times 39 = 44.46$
40	$C(40) = 1.14 \times 40 = 45.60$
41	$C(41) = 1.14 \times 41 = 46.74$
42	$C(42) = 1.14 \times 42 = 47.88$
43	$C(43) = 1.14 \times 43 = 49.02$
44	$C(44) = 1.14 \times 44 = 50.16$
45	$C(45) = 1.14 \times 45 = 51.30$
46	$C(46) = 1.14 \times 46 = 52.44$
47	$C(47) = 1.14 \times 47 = 53.58$
48	$C(48) = 1.14 \times 48 = 54.72$
49	$C(49) = 1.14 \times 49 = 55.86$
50	$C(50) = 1.14 \times 50 = 57.00$
51	$C(51) = 1.14 \times 51 = 58.14$
52	$C(52) = 1.14 \times 52 = 59.28$
53	$C(53) = 1.14 \times 53 = 60.42$
54	$C(54) = 1.14 \times 54 = 61.56$
55	$C(55) = 1.14 \times 55 = 62.70$
56	$C(56) = 1.14 \times 56 = 63.84$
57	$C(57) = 1.14 \times 57 = 64.98$
58	$C(58) = 1.14 \times 58 = 66.12$
59	$C(59) = 1.14 \times 59 = 67.26$
60	$C(60) = 1.14 \times 60 = 68.40$
61	$C(61) = 1.14 \times 61 = 69.54$
62	$C(62) = 1.14 \times 62 = 70.68$
63	$C(63) = 1.14 \times 63 = 71.82$
64	$C(64) = 1.14 \times 64 = 72.96$
65	$C(65) = 1.14 \times 65 = 74.10$
66	$C(66) = 1.14 \times 66 = 75.24$
67	$C(67) = 1.14 \times 67 = 76.38$
68	$C(68) = 1.14 \times 68 = 77.52$
69	$C(69) = 1.14 \times 69 = 78.66$
70	$C(70) = 1.14 \times 70 = 79.80$
71	$C(71) = 1.14 \times 71 = 80.94$
72	$C(72) = 1.14 \times 72 = 82.08$
73	$C(73) = 1.14 \times 73 = 83.22$
74	$C(74) = 1.14 \times 74 = 84.36$
75	$C(75) = 1.14 \times 75 = 85.50$
76	$C(76) = 1.14 \times 76 = 86.64$
77	$C(77) = 1.14 \times 77 = 87.78$
78	$C(78) = 1.14 \times 78 = 88.92$
79	$C(79) = 1.14 \times 79 = 90.06$
80	$C(80) = 1.14 \times 80 = 91.20$
81	$C(81) = 1.14 \times 81 = 92.34$
82	$C(82) = 1.14 \times 82 = 93.48$
83	$C(83) = 1.14 \times 83 = 94.62$
84	$C(84) = 1.14 \times 84 = 95.76$
85	$C(85) = 1.14 \times 85 = 96.90$
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Table A.4.

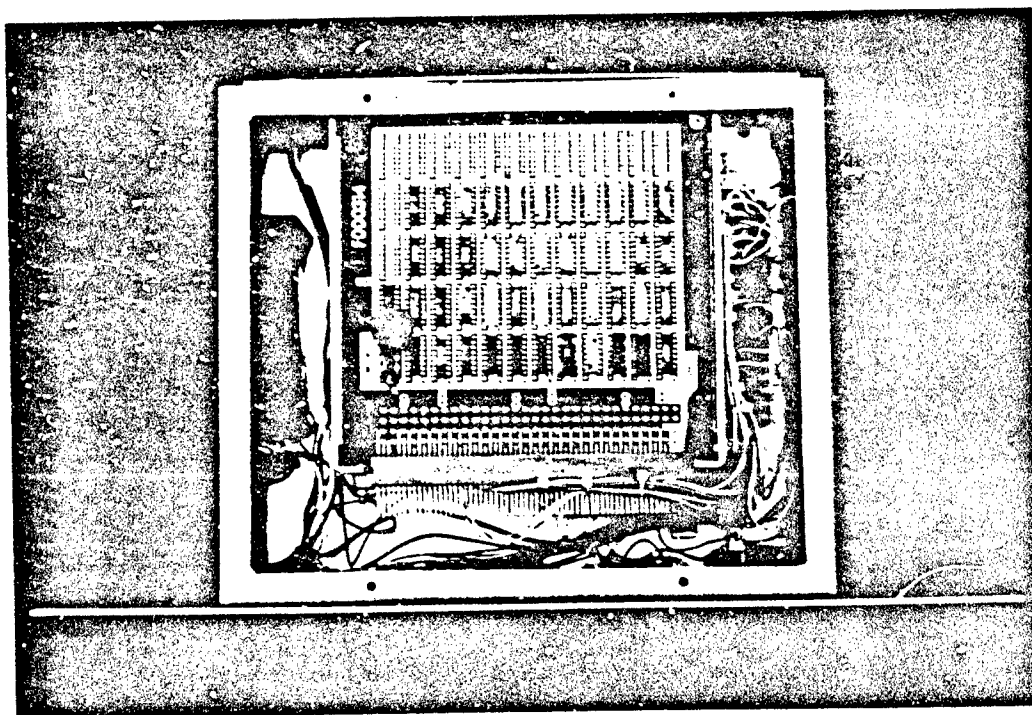


Figure A.5. Interior of Alarm Status Unit

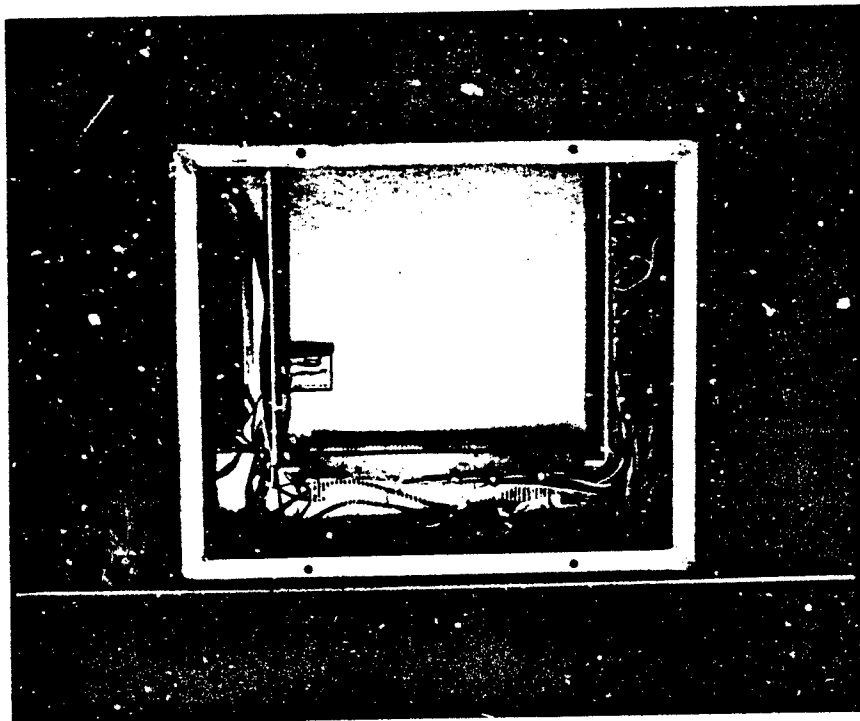
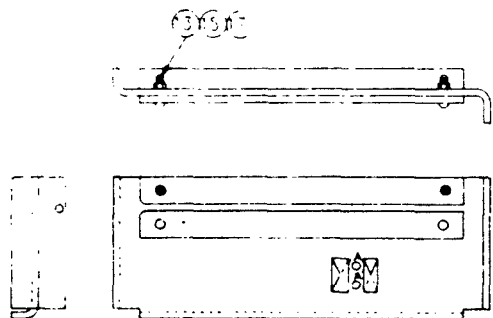
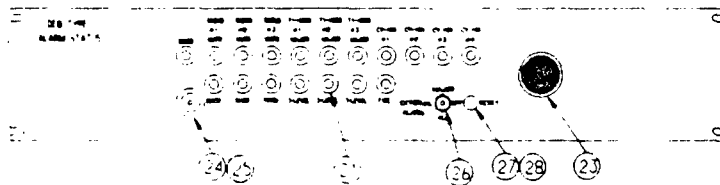
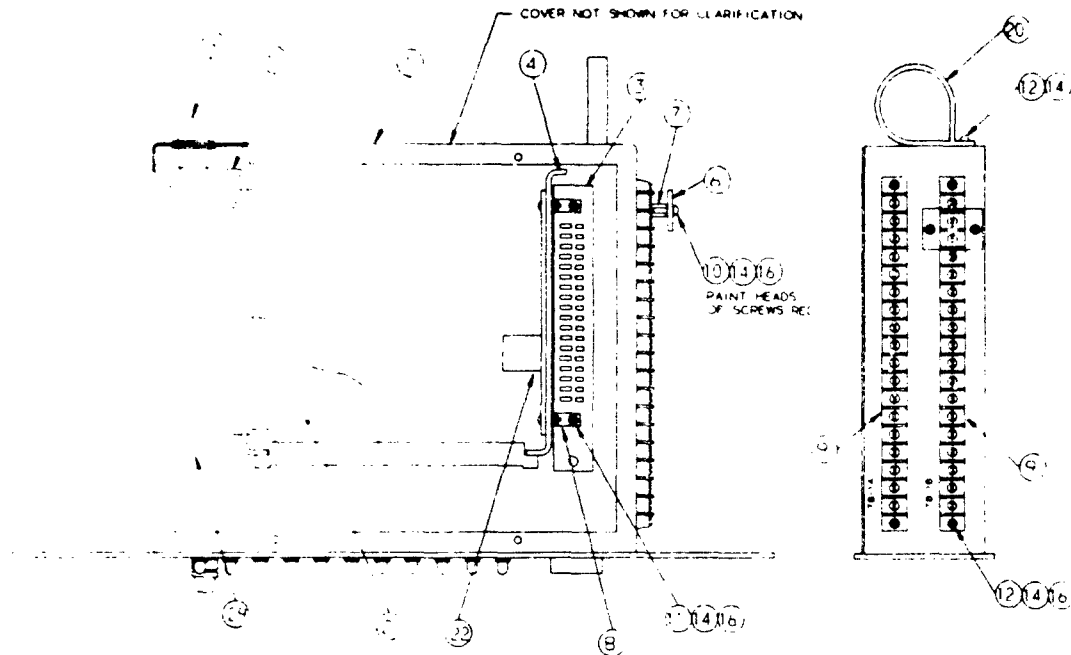


Figure A.6. Interior of Alarm Status Unit
Without Circuit Card

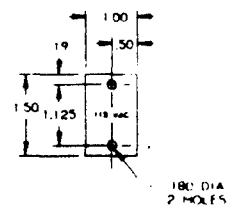
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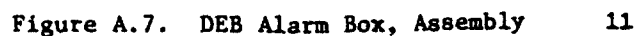


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DASH-002 AS SHOWN EXCEPT OPP HAND QUILT HOLES(2) MARKED 'A' AND
CUT-OUTS(2) USE POP RIVETS TO MOUNT BOTH GUIDES
SCALE: 1/1 REF TO MITRE DRWG C-000648-3



DASH-003 AS SHOWN
SCALE: 1/1



Technical drawing of a control panel, showing front and side views with dimensions and labels.

Front View (Top):

- Overall width: 27.5
- Overall height: 8.50
- Panel width: 2.75
- Panel height: 7.25
- Labels on panel:
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Side View (Bottom):

- Overall width: 2.00
- Overall height: 2.50
- Labels on side:
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 - TR-100

Details:

- COVER:** Indicated by a dashed line pointing to the top of the panel.
- PANEL:** Indicated by a dashed line pointing to the side of the panel.
- 375 DIA 2 HOLES:** Dimensioned at 3.37.
- 250 DIA 2 HOLES:** Dimensioned at 10.62 and 11.37.
- 323 DIA 30 HOLES:** Dimensioned at 7.25.
- 293 DIA 2 HOLES CHASSIS:** Dimensioned at 2.40.

DETAIL-A

ZONE	LTA
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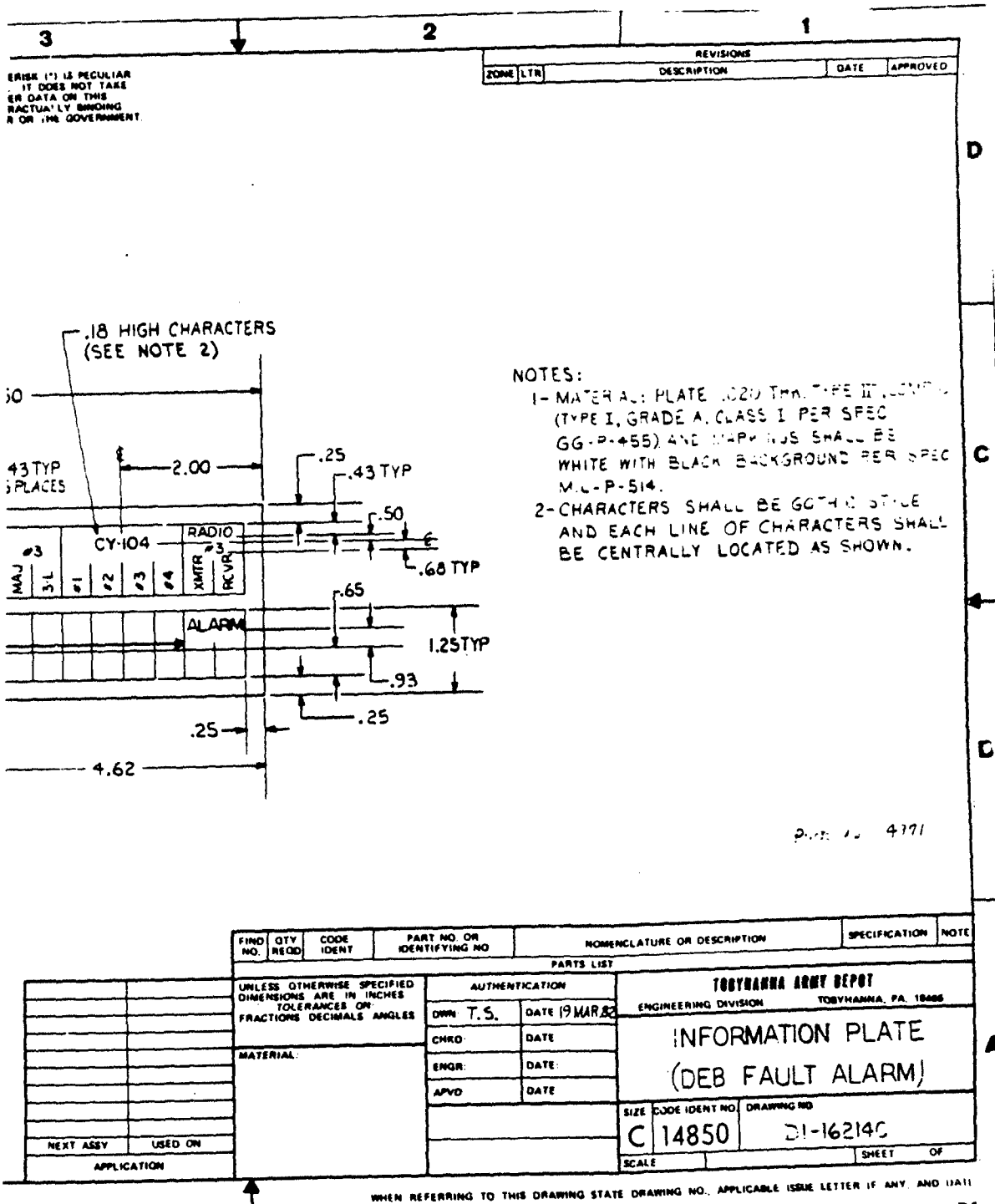
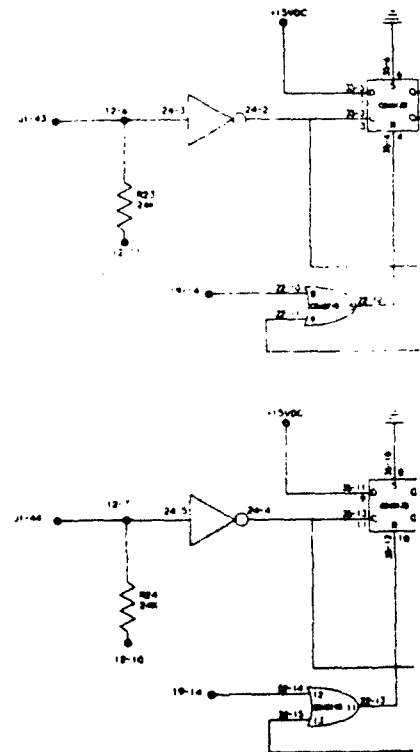
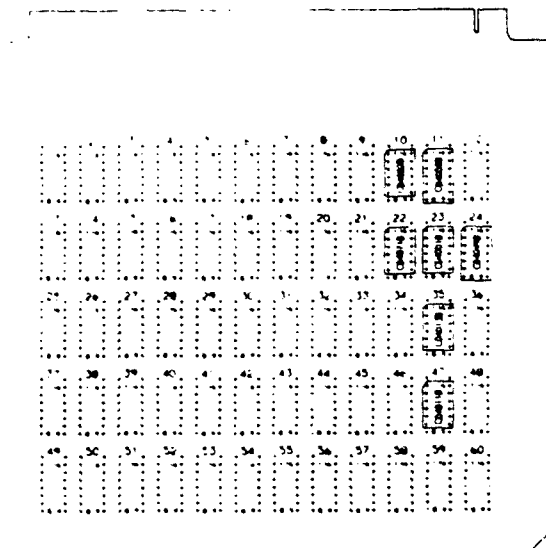


Figure A.7.6. DEB Fault Alarm Information Plate

ATTENTION: THE DATA PROVIDED
IS UNCLASSIFIED, DATE 04/18/00 BY 6030
AND SET BY 6030/100/00/00
IN COMPLIANCE WITH THE
DISPOSABLE ACT OF 1992

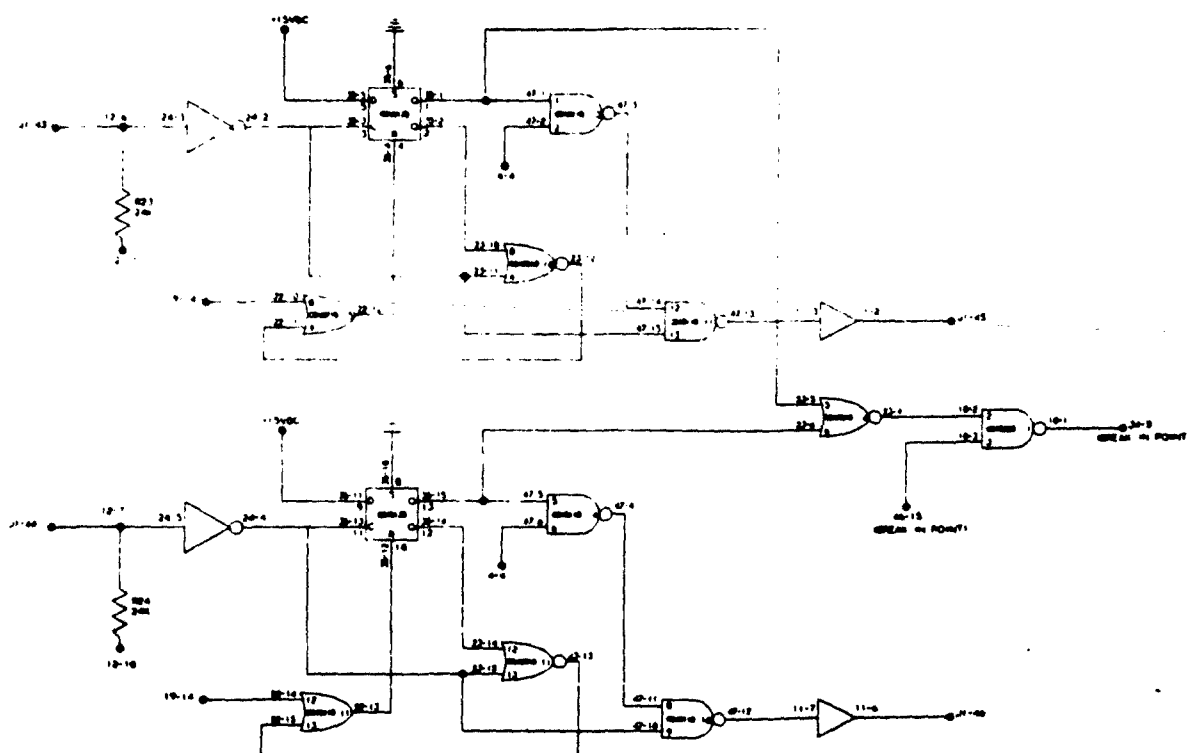
NOTE: DATA PROVIDED IS FOR INFORMATION ONLY. IT IS NOT TO BE
USED FOR THE DESIGN OF NEW OR EXISTING
SYSTEMS. IT IS NOT TO BE USED FOR THE
DESIGN OF NEW OR EXISTING SYSTEMS.
IT IS NOT TO BE USED FOR THE DESIGN OF NEW OR EXISTING
SYSTEMS.



NOTES

REF TO MITRE DWG D-000648-9

ALL W REWRAP BOARD POINTS LISTED FOR A RUN ARE CONNECTED TOGETHER. POINTS
ARE DESIGNATED BY SOCKET NUMBER AND PIN NUMBER FOR EXAMPLE: 9-11 IS PIN 11
OF SOCKET 9. GND IS GROUND AND VC IS +15VDC. EC10 IS EDGE CONNECTOR PIN 10.



ER. POINTS
15 PIN 11
R PIN 10

THE POINTS OF
15 PIN 11 AND 10 PIN 10
FOR THE 74139

ITEM NO.	DESCRIPTION	QUANTITY	REMARKS
1	74139	2	
2	7404	2	
3	7400	2	
4	74139	2	
5	7404	2	
6	7400	2	
7	74139	2	
8	7404	2	
9	7400	2	
10	74139	2	
11	7404	2	
12	7400	2	
13	74139	2	
14	7404	2	
15	7400	2	
16	74139	2	
17	7404	2	
18	7400	2	
19	74139	2	
20	7404	2	
21	7400	2	
22	74139	2	
23	7404	2	
24	7400	2	
25	74139	2	
26	7404	2	
27	7400	2	
28	74139	2	
29	7404	2	
30	7400	2	
31	74139	2	
32	7404	2	
33	7400	2	
34	74139	2	
35	7404	2	
36	7400	2	
37	74139	2	
38	7404	2	
39	7400	2	
40	74139	2	
41	7404	2	
42	7400	2	
43	74139	2	
44	7404	2	
45	7400	2	
46	74139	2	
47	7404	2	
48	7400	2	
49	74139	2	
50	7404	2	
51	7400	2	
52	74139	2	
53	7404	2	
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89	7404	2	
90	7400	2	
91	74139	2	
92	7404	2	
93	7400	2	
94	74139	2	
95	7404	2	
96	7400	2	
97	74139	2	
98	7404	2	
99	7400	2	
100	74139	2	

Figure A.7.7. Wirewrap Assembly